

- 95 -

WHAT IS CLAIMED IS  
CLAIMS.

1. A method for the prophylaxis or treatment of an airway disease condition in an animal, said method comprising administering to said animal, an effective amount of an agent capable of activating an airway epithelium protease activated receptor (PAR) for a time and under conditions sufficient for activation of said PAR to occur wherein the activated PAR stimulates, induces or otherwise facilitates inhibition of bronchoconstriction and/or inflammation.
2. A method according to claim 1 wherein the animal is a human.
3. A method according to claim 1 or 2 wherein the PAR is PAR1 or PAR2.
4. A method according to claim 3 wherein the PAR is PAR2.
5. A method according to claim 3 wherein the airway disease condition is asthma, bronchitis, hayfever, alveolitis, ciliary dyskinesia or pulmonary inflammation.

09/8/356.062501

SUB  
A2

- 96 -

6. A method according to claim 3 wherein the agent is a peptide selected from <400>1, <400>2 and <400>3 or functional equivalents, homologues or derivatives thereof.
7. A method according to claim 6 wherein the peptide is modified to permit entry across an epithelial and/or subcutaneous layer.
8. A method according to claim 7 wherein the peptide is fused to penetratin.
9. A method according to claim 7 wherein the peptide is fused to TAT or a functional derivative or homologue thereof.
10. A composition useful for facilitating bronchoprotection said composition comprising an activator of a PAR in airway epithelium and one or more pharmaceutically acceptable carriers and/or diluents.
11. A composition according to claim 10 wherein the PAR is PAR1 or PAR2.

0078356-062501

SUB  
A2

- 97 -

12. A composition according to claim 10 wherein the PAR is PAR2.

13. An isolated molecule comprising protease activated receptor (PAR) activity wherein said molecule is isolatable from airway epithelium and upon activation, stimulates, induces or otherwise facilitates inhibition of bronchoconstriction and/or inflammation in humans and animals.

14. An isolated molecule according to claim 12 wherein the PAR molecule is PAR2.

15. A recombinant, synthetic or purified, naturally occurring molecule comprising protease activated receptor-2 (PAR2) activity wherein said molecule in its naturally occurring form is isolatable from airway epithelium and upon activation by a PAR2 activating peptide, stimulates, induces or otherwise facilitates inhibition of bronchoconstriction and/or inflammation in humans and animals.

105290" 95278760

SUB  
A2ADD  
A3

## CLAIMS:

1. A method for the prophylaxis or treatment of an airway disease condition in an animal, said method comprising administering to said animal, an effective amount of an agent capable of activating an airway epithelium protease activated receptor (PAR) for a time and under conditions sufficient for activation of said PAR to occur wherein the activated PAR stimulates, induces or otherwise facilitates inhibition of bronchoconstriction and/or inflammation.
2. A method according to claim 1 wherein the animal is a human.
3. A method according to claim 1 or 2 wherein the PAR is PAR1 or PAR2.
4. A method according to claim 3 wherein the PAR is PAR2.
5. A method according to claim 3 wherein the airway disease condition is asthma, bronchitis, hayfever, alveolitis, ciliary dyskinesia or pulmonary inflammation.

09787356 062501

6. A method according to claim 3 wherein the agent is a peptide selected from <400>1, <400>2 and <400>3 or functional equivalents, homologues or derivatives thereof.

7. A method according to claim 6 wherein the peptide is modified to permit entry across an epithelial and/or subcutaneous layer.

8. A method according to claim 7 wherein the peptide is fused to penetratin.

9. A method according to claim 7 wherein the peptide is fused to TAT or a functional derivative or homologue thereof.

10. A composition useful for facilitating bronchoprotection said composition comprising an activator of a PAR in airway epithelium and one or more pharmaceutically acceptable carriers and/or diluents.

11. A composition according to claim 10 wherein the PAR is PAR1 or PAR2.

09787356 062501  
105290 95/8/60

- 97 -

12. A composition according to claim 10 wherein the PAR is PAR2.

13. An isolated molecule comprising protease activated receptor (PAR) —  
activity wherein said molecule is isolatable from airway epithelium and  
upon activation, stimulates, induces or otherwise facilitates inhibition of  
bronchoconstriction and/or inflammation in humans and animals.

14. An isolated molecule according to claim 12 wherein the PAR  
molecule is PAR2.

15. A recombinant, synthetic or purified, naturally occurring molecule  
comprising protease activated receptor-2 (PAR2) activity wherein said  
molecule in its naturally occurring form is isolatable from airway epithelium  
and upon activation by a PAR2 activating peptide, stimulates, induces or  
otherwise facilitates inhibition of bronchoconstriction and/or inflammation in  
humans and animals.

09787356.062501